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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,828	11/16/2001	Omid McDonald	9-15504-1US	7647
20988	7590	02/15/2006		
OGILVY RENAULT LLP 1981 MCGILL COLLEGE AVENUE SUITE 1600 MONTREAL, QC H3A2Y3 CANADA			EXAMINER THAI, HANH B	
			ART UNIT 2163	PAPER NUMBER

DATE MAILED: 02/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/987,828

Applicant(s)

MCDONALD ET AL.

Examiner

Hanh B. Thai

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on RCE filed 1/20/06.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 2-22,24 and 25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2-22,24 and 25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>1/20/06</u> . | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. The following is a Non-final Office Action in response to the RCE filed January 20, 2006. Claims 1 and 23 have been cancelled. Claims 24 and 25 are newly added. Claims 2-22 and 24-25 are pending in this application.

***Response to Arguments***

2. Applicant's arguments with respect to claims 2-22 and 24-25 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 15 and 24 recites the limitation "the card" in line 10 of claim 15 and line 7 of claim 24. There is insufficient antecedent basis for this limitation in the claims.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2-22 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahlgren et al. (US 6,968,209 B1) new cited in view of Cheng et al. (US 6,879,989 B2) new cited.

Regarding claim 6, Ahlgren discloses a method applied by an electronic token for identifying changed records in a memory of the electronic token, the method comprising:

- calculating in the memory a change detection code (CDC) for each record in the memory and storing the respective CDCs in the memory of the electronic token (abstract; col.2, lines 59-62 and col. 4, lines 9-22, Ahlgren discloses calculating checksum stored in the SIM card reads on the claimed “calculating in the memory a change detection code”);
- comparing in the memory the calculated CDC with the stored CDC associated with the record in order to determine if the record has changed since the stored CDC was calculated (abstract; summary; col. 4, lines 24-34 and lines 58-65, Ahlgren) and
- if the calculated CDC is not equal to the stored CDC, and saving the calculated CDC of the record as the stored CDC of the record (abstract; summary and col. 4, lines 35-54, Ahlgren).

Ahlgren, however, does not disclose sending a message to a requesting element, which message includes a content of the record which has been identified as changed. Cheng, on the other hand, discloses modification system for supporting localized data changes in a mobile device including transmitting the changed record in a log file (see col. 7, line 7 to col. 8, line 18, Cheng). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Ahlgren to include the claimed feature as taught by Cheng. The motivation of doing so would have been to provide efficient system that can delete redundant data and detect any data changes made with the mobile device when it is connected with the main database during the synchronization process to

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eliminate unnecessarily increases of the amount of data transmitted back and forth during the synchronization process resulting in a slow and inefficient operation (col.1, line 60 to col.2, line 5, Cheng).

Regarding claim 2, Ahlgren/Cheng combination further discloses a step of calculating a cyclic redundancy check (col.4, lines 10-22, Ahlgren).

Regarding claim 3, Ahlgren/Cheng combination further discloses a step of determining if the at least one associated record is changed and yields information regarding the change, the information being input to the predefined algorithm (summary; col.3, lines 11-21; col. 4, lines 24-34 and lines 58-65, Ahlgren).

Regarding claim 4, Ahlgren/Cheng combination further discloses the step of issuing a message to an electronic token reader in which the electronic token is docked, the message containing at least one parameter regarding the change for use by a registering element to which the message is sent by a token-resident applet via the electronic token reader (col.3, lines 11-21; col. 4, lines 24-34 and lines 58-65, Ahlgren).

Regarding claim 5, Ahlgren/Cheng combination disclose a step of setting a response pending flag which is cleared if an acknowledgement of the message is received, wherein the flag is used to indicate that a message was not acknowledged (col.7, lines 7-45 and step 240, Fig.4, Cheng).

Regarding claim 7, Ahlgren/Cheng combination disclose a step of using any flag set in association with the stored CDC, in conjunction with the values of the stored CDC and calculated CDC to determine if the record was changed since a last acknowledged message related to the record was sent (col. 7, line 7 to col. 8, line 18, Cheng).

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Regarding claim 8, Ahlgren/Cheng combination disclose a step of sending the message to the registering element, which performs at least one of: synchronization of data across multiple data stores; update of a system with respect to the record; back-up of the record; and provision of a service feature in dependence on the change to the record (col. 7, line 7 to col. 8, line 18, Cheng).

Regarding claim 9, Ahlgren/Cheng combination disclose steps of issuing a short message service message to a service provider that has access to the registering element (col. 8, lines 8-18, Cheng).

Regarding claim 10, Ahlgren/Cheng combination disclose steps of: receiving information relating to the change; formulating a notice of change (NOC) message; and inserting as many NOC messages as possible into the SMS message before sending the SMS message (col.3, lines 11-21; col. 4, lines 24-65, Ahlgren).

Regarding claim 11, Ahlgren/Cheng combination disclose that the electronic token is a subscriber identity module and the step of comparing further comprises a step of applying a comparison algorithm that executes on the subscriber identity module, the comparison algorithm being adapted to compare a CDC of each of a plurality of abbreviated dialing numbers in the file; and the step of issuing comprises a step of directing a SMS message to the registering element, which is adapted to perform at least one of the following: ensure conformity of the file with other versions of the file stored elsewhere; back-up the file; and, provide a service feature in dependence on the change (col.3, lines 11-21; col. 4, lines 24-34 and lines 58-65, Ahlgren).

Regarding claim 12, Ahlgren/Cheng combination disclose steps of formulating the message by inserting the at least one parameter into respective fields of the message, and forwarding the message to the registration element (col. 7, line 7 to col. 8, line 18, Cheng).

Regarding claim 13, Ahlgren/Cheng combination disclose steps of inserting a record identifier, and information that specifies the change (col. 7, line 7 to col. 8, line 18, Cheng).

Regarding claim 14, Ahlgren/Cheng combination disclose a step of inserting a value that indicates one of the following: the record was added; the record was deleted; and the record was modified (col.3, lines 11-21; col. 4, lines 24-65, Ahlgren).

Regarding claim 15, Ahlgren discloses an apparatus for providing a service to a subscriber having an electronic token, the apparatus comprising:

a change detection applet stored on the electronic token including a microprocessor and a memory, the electronic token storing a set of records and change detection codes (CDCs) respectively associated with the records respectively associated with the records, the CDCs identifying a version of the stored record (abstract; col.2, lines 59-62 and col. 4, lines 9-22, Ahlgren discloses log file of records and a checksum stored in the SIM card reads on the claimed “electronic token storing a set of records and change detection codes”), said applet being adapted to be executed by the microprocessor of the electronic taken and adapted to identify any record that has been changed since a change detection code (CDC) for the record was stored in the card (summary; col. 4, lines 24-34 and lines 58-65, Ahlgren ) by calculating a current CDC for the record and comparing such current CDC with the stored CDC (summary; col. 4, lines 24-65, Ahlgren).

Ahlgren, however, does not disclose sending a message to a requesting element, which message includes a content of the record which has been identified as changed. Cheng, on the other hand, discloses modification system for supporting localized data changes in a mobile device including transmitting the changed record in a log file (see col. 7, line 7 to col. 8, line 18, Cheng). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Ahlgren to include the claimed feature as taught by Cheng. The motivation of doing so would have been to provide efficient system that can delete redundant data and detect any data changes made with the mobile device when it is connected with the main database during the synchronization process to eliminate unnecessarily increases of the amount of data transmitted back and forth during the synchronization process resulting in a slow and inefficient operation (col.1, line 60 to col.2, line 5, Cheng).

Regarding claim 16, Ahlgren/Cheng combination discloses the change detection applet calculates a cyclic redundancy check (CRC) to derive the current CDC (col.4, lines 10-22, Ahlgren).

Regarding claim 17, Ahlgren/Cheng combination discloses back up records for which the NOC message was generated; synchronize the file with other files remotely stored but commonly associated with a subscriber; and, provide a service dependent upon the detected change (col.4, lines 10-65, Ahlgren).

Regarding claim 18, Ahlgren/Cheng combination discloses the electronic token is docked in a communications enabled device that comprises an electronic token reader adapted to



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exchange data in conformity with a predetermined protocol (col.3, lines 11-21; col. 4, lines 24-34 and lines 58-65, Ahlgren).

Regarding claim 19, Ahlgren/Cheng combination discloses a subscriber identity module (SIM) card compliant with a global system for mobile communications (GSM) standard; and a universal SIM (USIM) card (see Fig.1-3 and corresponding text, Ahlgren).

Regarding claim 20, Ahlgren/Cheng combination discloses the communications enabled device is adapted to function as a short message service (SMS) enabled telephone (col.3, lines 11-21; col. 4, lines 24-34 and lines 58-65, Ahlgren).

Regarding claim 21, Ahlgren/Cheng combination discloses a data store for storing a set of response pending flags that are associated with a list of records in the file, and the change detection applet is further adapted to use the set of response pending flags to determine if a record may have been changed since a last NOC message for the record was acknowledged (col. 7, line 7 to col. 8, line 18, Cheng and step 240, Fig.4, Cheng).

Regarding claim 22, Ahlgren/Cheng combination discloses the set of response pending flags comprises at least two flags used to encode change information, and the change detection applet is further adapted to use the plurality of flags, in conjunction with the stored CRC and current CRC, to determine if a notice of change message related to the record is to be sent (col. 7, line 7 to col. 8, line 18, Cheng).

Regarding claims 24-25, Ahlgren discloses a change applet stored on an electronic token including a microprocessor and a memory, the electronic token storing a set of records and change detection codes (CDCs) respectively associated with the record, the CDCs identifying a version of the stored record, said applet being adapted to be executed by the microprocessor of

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the electronic token and adapted to identify any record that has been changed since a change detection code (CDC) of the record was stored in the card (abstract; col.2, lines 59-62 and col. 4, lines 9-22, Ahlgren discloses log file of records and a checksum stored in the SIM card reads on the claimed “electronic token storing a set of records and change detection codes”), by calculating a current CDC for the record and comparing such current CDC with the stored CDC (col.2, lines 59-62 and col. 4, lines 9-65 Ahlgren discloses calculating checksum stored in the SIM card and comparing the checksum reads on the claimed “calculating a current CDC” and “comparing current CDC with the stored CDC”).

Ahlgren, however, does not disclose sending a notice of change message (NOC) to a registering element, the notice of change message including a content of such a record. Cheng, on the other hand, discloses modification system for supporting localized data changes in a mobile device including transmitting the changed record in a log file (see col. 7, line 7 to col. 8, line 18, Cheng). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Ahlgren to include the claimed feature as taught by Cheng. The motivation of doing so would have been to provide efficient system that can delete redundant data and detect any data changes made with the mobile device when it is connected with the main database during the synchronization process to eliminate unnecessarily increases of the amount of data transmitted back and forth during the synchronization process resulting in a slow and inefficient operation (col.1, line 60 to col.2, line 5, Cheng).

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Novak et al. (US 6,718,348 B1) disclose non-time dependent synchronization of databases.

2. Hubble et al. (US 6,278,885 B1) disclose mobile phone using subscriber identification card for updating information stored therein.

3. Chou (US Pub. 2003/0038791 A1) discloses subscriber identity module card backup system.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh B. Thai whose telephone number is 571-272-4029. The examiner can normally be reached on 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Hanh B Thai  
Examiner  
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February 6, 2006



**UYEN LE**  
**PRIMARY EXAMINER**